## BIRCH, STEWART, KOLASCH & BIRCH, LLP

PLEASE NOTE: YOU MUST COMPLETE THE FOLLOWING

Insert Title:

METAL CATALYST AND ITS USE

P.O. Box 747 • Falls Church, Virginia 22040-0747 Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

## COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT AND DESIGN APPLICATIONS

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated next to my name; that I verily believe that I am the original, first and sole inventor (if only one inventor is named below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

United States Application Number (if applicable) and/or the specification was filed on April 14. 2004 (if applicable) and/or the specification was filed on April 14. 2004 (if applicable) and/or the specification was filed on April 14. 2004 (if applicable) and was amended on (if applicable) and was amended on (if applicable) Interest the property state that I have reviewed and understand the contents of the above-identified specification, including the claim amended by any amendment referred to above.  I also knowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Fed Regulations, \$1.56.  I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim amended by any amendment referred to above.  I hereby claim to reject the contents of the above-identified specification, including the claim amended by any amendment referred to above.  I hereby claim foreign that the invention has been patented or made the subject on an application filed by me or my legal representatives or assigns, except as follows.  I hereby claim foreign priority benefits under Title 35, United States Code, \$19(4) cl) of any foreign application filed by me or my legal representatives or assigns, except as follows.  I hereby claim foreign priority benefits under Title 35, United States Code, \$19(4) cl) of any foreign application for patent or inventor's certificate his filing date before that of the application on which priority is claimed:  If appropriate)  Interesty claim the benefit under Title 35, United States Code, \$119(e) of any United States provisional applications(e) listed below and have also identified below any foreign application for patent or inventor's certificate has filing date before that of the application on which priority is claimed:  If appropriate)  Interesty claim the benefit under Title 35, United States Code, \$119(e) of any United States provisional applications(e) listed below and interest as the applicat	Fill in Appropriate	the specification of which is attached hereto. If not attached hereto, the application is identified by the attorney docket number as set forth above and/or the following:									
and amended on	nformation -	The specification was filed onas United States Application Number									
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Amended on		the specification wa		(ii uppiicuoie	as PCT						
amended on		International Appli		; and was							
amended by any amendment referred to above.  I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Fed Reg Many Code of Fed Reg Many Code (States) and the United States of America before my or our invent of the property of the application, that the same was ever known or used in the United States of America before my or our invent thereof, or patented or described in any printed publication in any country before my or patented for make the subject of an invention thereof or more than year prior to this application, that the same was not in public use or on sale in the United States of America more than one prior to the application of the same was not in public use or on sale in the United States of America more than one prior to the prior to this application, and that no application patent or inventor's certificate is taked to this invention has been filed in any country foreign to the same that no application patent or inventor's certificate is taked to below and have also identified below any foreign application of a publication or inventor's certificate is taked below and have also identified below any foreign application for patent or inventor's certificate is lated below and have also identified below any foreign application for patent or inventor's certificate is lated below and have also identified below any foreign application for patent or inventor's certificate is lated.  Prior Foreign Applications (S)  Interest Priority		amended on		(if ap	plicable)						
Regulations, §1.56.  I do not knowled do not believe the same was ever known or used in the United States of America before my or our inventor to the control of the described in any printed publication in any country before my or our inventor from the print of this application, that the invention has not been platented or made the subject on an inventor's certificate Issued before date of this application in any country foreign to the United States of America on an application flied by me or my I representative or assigns more than twelve months (six months for designs) prior to this application, that the invention assigns, except as follows.  I hereby claim foreign priority benefits under Title 35, United States Code, §119,e10,e10 of any foreign application(s) for part or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate listed below and formation:  Insert Priority  Insert Priority  Insert Priority  Insert Priority Claimed  April 18, 2003  I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional applications(s) listed below any patent or inventor's Certificate Filed More than 12 Months (6 Months for Designs) Priority and priority		I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.									
thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than year prior to this application, that the ame was not in public use or on sale in the United States of America more than one prior to this application, that the invention has not been patented or made the subject of an inventior's certificate issued before representative or assigns more than twelve months (six months for designs) prior to this application, and that no application patent or inventor's certificate issue more than twelve months (six months for designs) prior to this application, and that no application application by me or my legal representatives or assigns, except as follows.  I hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application (s) for patent or inventor's certificate is the decision of the priority of the priority of the priority is claimed.  Prior Foreign Application(s)  Prior Foreign Application(s)  Priority Claimed  Insert Priority  (Number)  (Country)  (Month/Day/Year Filed)  (Number)  (Country)  (Month/Day/Year Filed)  (Number)  (Country)  (Month/Day/Year Filed)  (Application Number)  (Application Number)  (Application Number)  (Application Number)  (Application Number)  I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional applications(s) listed below more than 12 Months (6 Months for Designs) Priority foreign applications, if any, for any Patent or Inventor's Certificate Filed More than 12 Months (6 Months for Designs) Priority foreign application, in the prior United States and or PCT application or the priority or PCT application in the manner provided by the first paragraph of Title 35, United States Code, §1120 of any United States and/or PCT application or international filing date of this application.  I hereby claim the benefit under Title 35, United States Code, §120 of any United States and/or PCT application or international filing date of this		Regulations, §1.56.									
a fulling date before that of the application on which priority is claimed: Prior Foreign Application(s)  Insert Priority  (Number) (Country) (Month/Day/Year Filed) Yes No  I hereby claim the benefit under Title 35, United States Code, \$119(e) of any United States provisional applications(s) listed below the Filing Date of This Application:  (Application Number) (Filing Date)  (Application Number) Application Number Date of Filing (Month/Day/Year)  I hereby claim the benefit under Title 35, United States Code, \$120 of any United States and/or PCT application (s) induction in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States information:  If appropriate) (I hereby claim the benefit under Title 35, United States Code, \$120 of any United States and/or PCT application (s), including continuation-in-part application(s) listed below and, insofar as the subject matter of each of the claims of this application in the manner provided by the first paragraph of Title 35, United States information which is materiability as defined in Title 37, Code Federal Regulations, \$1.56 which became available between the filing date of the prior application and the national or international filing date of this application.  (Application Number) (Filing Date) (Status - patented, pending, abandoned)  (Application Number) (Filing Date) (Status - patented, pending, abandoned)		I do not know and do not believe the same was ever known or used in the United States of America before my or our invention thereof, or patented or described in any printed publication in any country before my or our invention thereof or more than one year prior to this application, that the same was not in public use or on sale in the United States of America more than one year prior to this application, that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representative or assigns more than twelve months (six months for designs) prior to this application, and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns event as follows:									
Insert Priority information: (if appropriate)    (If appropriate)   (Number)   (Country)   (Month/Day/Year Filed)   Yes   No		a filing date before that of	of the applicat	ion on which priority is cla	imed:	ippilcudori for patcit					
Information: (graph appropriate)   (Number) (Country)   (Month/Day/Year Filed)   Yes   No	Insert Priority	Prior Foreign Applica	tion(s)				Priority C	Claimed			
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[Number] (Country) (Month/Day/Year Filed) Yes No  [Number] (Country) (Month/Day/Year Filed) Yes No  [Number] (Country) (Month/Day/Year Filed) Yes No  I hereby claim the benefit under Title 35, United States Code, \$119(e) of any United States provisional applications(s) listed below insert Provisional Application Number) (Filing Date)  [Application Number] (Filing Date)  All Foreign Applications, if any, for any Patent or Inventor's Certificate Filed More than 12 Months (6 Months for Designs) Prior the Filing Date of This Application:  Country Application Number Date of Filing (Month/Day/Year)  I hereby claim the benefit under Title 35, United States Code, \$120 of any United States and/or PCT application(s), including continuation-in-part application(s) listed below and, insofar as the subject matter of each of the claims of this application is disclosed in the prior United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States a		(* * * * * * * * * * * * * * * * * * *	(,		, , ,	,					
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the Filing Date of This Application:  Country  Application Number  Date of Filing (Month/Day/Year)  Insert Requested Information:  if appropriate)  I hereby claim the benefit under Title 35, United States Code, \$120 of any United States and/or PCT application(s), including continuation-in-part application(s) listed below and, insofar as the subject matter of each of the claims of this application is disclosed in the prior United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States Code, §120 of any United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner provided by the first paragraph of Title 35, United States and/or PCT application in the manner p		(Application Number)	Date)								
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	Application(s):	(Application Number)		(Filing Date)	(Status - p		ented, pending, abandoned)				
		(Application Number)		(Filing Date)		(Status - patented, p	ending, abandon	ed)			

Attorney Docket No.

I hereby appoint the practitioners at CUSTOMER NO. 02292 as my attorneys or agents to prosecute this application and/or an international application based on this application and to transact all business in the United States Patent and Trademark Office connected therewith and in connection with the resulting patent based on instructions received from the entity who first sent the application papers to the practitioners, unless the inventor(s) or assignee provides said practitioners with a written notice to the contrary:

Send Correspondence to:

## BIRCH, STEWART, KOLASCH & BIRCH, LLP or CUSTOMER NO. 02292

P.O. Box 747 • Falls Church, Virginia 22040-0747

Telephone: (703) 205-8000 • Facsimile: (703) 205-8050

PLEASE NOTE: YOU MUST COMPLETE THE FOLLOWING:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of First or Sole Inventor: Insert Name of	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*						
Inventor → Insert Date This Document is Signed	Masaji HIROTA	Masail Hirota	(	July 25,2005						
Insert Residence	Residence (City, State & Country)		CITIZENSHI	P						
Insert Citizenship →	Niihama-shi, Ehime, JAPAN	Japanese								
Insert Post Office Address	MAILING ADDRESS (Complete Street Address including City, State & Country)									
	20-1, Hoshigoe-cho, Niihama-shi, Ehime, JAPAN									
Full Name of Second Inventor, if any:	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*						
see above	Koji HAGIYA	por Hagina	t	July 20, 2004						
	Residence (City, State & Country)		CITIZENSHI	P						
	Ibaraki-shi, Osaka, JAPAN	Japanese								
	MAILING ADDRESS (Complete Street Address including City, State & Country)									
	5-4-405, Gakuen-cho, Ibaraki-shi, Osaka, JAPAN									
Full Name of Third Inventor, if any: see above	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*						
	Residence (City, State & Country)		CITIZENSHI	P						
	MAILING ADDRESS (Complete Street Address including City, State & Country)									
Full Name of Fourth Inventor, if any: see above	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*						
	Residence (City, State & Country)		CITIZENSHI	P						
	MAILING ADDRESS (Complete Street Address including City, State & Country)									
Full Name of Fifth Inventor, if any: see above	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*						
	Residence (City, State & Country)		CITIZENSHI	P						
	MAILING ADDRESS (Complete Street Address including City, State & Country)									
Full Name of Sixth Inventor, if any: see above	GIVEN NAME/FAMILY NAME	INVENTOR'S SIGNATURE		DATE*						
	Residence (City, State & Country)		CITIZENSHI	P						
	MAILING ADDRESS (Complete Street Address including City, State & Country)									